

We claim:

1. Apparatus for use with a drape capable of enclosing a surgical microscope having a lens housing, said apparatus comprising a first retainer of such size as to encircle and separably grip said lens housing; a second retainer encircling said first retainer, said second retainer being adjustable relative to said first retainer and being so configured as releasably to remain in any selected one of a number of positions of adjustment relative to said first retainer; and means carried by at least one of said retainers for supporting a transparent shield in a position to protect lenses in said lens housing from contamination.
2. Apparatus according to claim 1 wherein each of said retainers is annular.
3. Apparatus according to claim 1 wherein said second retainer is reciprocable relative to said first retainer.
4. Apparatus according to claim 1 wherein said second retainer is rockable relative to said first retainer.
5. Apparatus according to claim 1 wherein said second retainer is rotatable relative to said first retainer.
6. Apparatus according to claim 1 wherein said second retainer is axially reciprocable, rockable, and rotatable relative to said first retainer.

7. Apparatus according to claim 1 wherein said one of said retainers has a frusto-spherical wall and the other of said retainers has a wall encircling said frusto-spherical wall.

8. Apparatus according to claim 1 wherein said wall of said other of said retainers is linear.

9. Apparatus according to claim 8 wherein said wall of said other of said retainers tapers in one direction.

10. Apparatus according to claim 1 wherein said shield has a tab extending outwardly therefrom.

11. Apparatus according to claim 1 wherein the means for supporting said transparent shield comprises an annular groove in the wall of said one of said retainers and in which said shield is accommodated.

12. Apparatus according to claim 11 wherein said groove is formed by first and second annular ribs parallel to and spaced from one another.

13. A protective cover construction for removable attachment to an objective lens housing of a surgical microscope, said construction comprising a primary retainer of such size as to encircle and engage said lens housing, said retainer having an external frusto-spherical surface and an internal surface adapted to seat on and snugly engage said lens housing; support means at said internal surface for supporting a transparent shield which forms a closure for said

retainer; a secondary retainer of such size as to encircle said primary retainer and having an internal surface operable to seat on and be supported by the external surface of said primary retainer; and means adjacent one end of said internal surface of said secondary retainer for accommodating and retaining a second transparent shield operable to form a closure for said secondary retainer, said secondary retainer being adjustable relative to said primary retainer to any selected one of a number of positions of adjustment, the engagement of the external and internal surfaces of said primary and secondary retainers respectively being operable to maintain said retainers in said selected position of adjustment.

14. The construction according to claim 13 wherein said internal surface of said secondary retainer is tapered in a direction from said one end of said internal surface toward its opposite end.

15. The construction according to claim 14 wherein the internal surface of said secondary retainer at said one end thereof has a diameter greater than that of said opposite end thereof, the diameter of the opposite end of said internal surface of said secondary retainer being less than the maximum diameter of said frusto-spherical surface of said primary retainer.

16. The construction according to claim 15 wherein said internal surface of said secondary

retainer has a height sufficient to enable axial movement of said secondary retainer relative to said primary retainer a distance sufficient to reduce the force with which the internal surface of said secondary retainer engages the external surface of said primary retainer.

17.           The construction according to claim 13 wherein said primary retainer is formed of elastomeric material.

18.           The construction according to claim 11 wherein said secondary retainer is formed of elastomeric material.

19.           The construction according to claim 13 wherein said internal surface of said primary retainer has at least one annular enlargement projecting radially inwardly for circumferential engagement with said lens housing.

20.           A protective cover construction for a surgical microscope having an objective lens housing, said construction comprising a first retainer having an annular wall of such size as to encircle and snugly engage said lens housing, said annular wall having an external frusto-spherical surface; a second retainer having an annular wall whose inner surface is of such diameter as to encircle said one end of said first retainer and snugly engage said external surface thereof whereby said first retainer provides support

for said second retainer; and retaining means carried by said second retainer adjacent one end thereof for accommodating and supporting a transparent shield forming a closure for said second retainer, said second retainer being movable relative to said first retainer to any selected one of a plurality of adjusted positions, the engagement between said respective external and internal surfaces exerting sufficient force to maintain said second retainer in said selected one of said positions.

21.           The construction according to claim 20 wherein said first retainer has support means for supporting a second transparent shield which forms a closure for said second retainer.

22.           The construction according to claim 20 wherein the internal surface of said wall of said second retainer has a diameter which diminishes in a direction from said one end thereof toward its opposite end.

23.           The construction according to claim 22 wherein said internal surface of said second retainer has a maximum diameter adjacent said one end of said wall greater than the maximum diameter of said frusto-spherical surface of said first retainer and a minimum diameter adjacent said opposite end less than the maximum diameter of said frusto-spherical surface of said first retainer.

24. The construction according to claim 20 wherein said wall of said second retainer has a height sufficient to enable movement of said second retainer axially relative to said first retainer a distance sufficient to reduce the force exerted on said first retainer by said second retainer.

25. The construction according to claim 24 wherein said wall of said second retainer has a height sufficient to enable axial movement of said retainer member relative to said first retainer a distance sufficient to be effect disengagement between the respective external and internal surfaces of said first and second retainers.

26. The construction according to claim 1 wherein said first retainers has an annular, radially extending flange adjacent its opposite end for attachment to a drape.

27. The construction according to claim 26 including a drape having therein an opening of such size as to accommodate said objective lens housing, said opening being coaxial with said first retainer, the material of such drape adjacent said opening being adhered to said flange.